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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,959	09/12/2003	Donald Fedyk	120-142 8403	
34845 7590 10/10/2007 McGUINNESS & MANARAS LLP			EXAMINER	
125 NAGOG I	PARK		NALVEN, ANDREW L	
ACTON, MA 01720			ART UNIT	PAPER NUMBER
			2134	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

3	Application No.	Applicant(s)				
•	10/661,959	FEDYK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew L. Nalven	2134				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	ne correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply to rill apply and will expire SIX (6) MONTHS cause the application to become ABAND	TON. pe timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status	,					
1) Responsive to communication(s) filed on 22 Au	ugust 2007.					
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11	, 453 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1,2,6,10,12 and 16 is/are pending in the day Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2,6,10,12 and 16 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 12 September 2003 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ ob drawing(s) be held in abeyance. ion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicity documents have been received in Received in Received in Received (PCT Rule 17.2(a)).	cation No eived in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:	il Date				

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DETAILED ACTION

1. Claims 1, 2, 6, 10, 12, and 16 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 2, 6, 10, 12, and 16 have been considered and are persuasive with regards to the failure of Hoke and Hama to teach using the group identifier for transforming the packet. The instant office action presents a new rejection in view of Hoke, Hama, and Chandran. Chandran remedies the deficiencies of Hoke and Hama with regards to the cited feature by teaching that a group identifier in the form of MPLS/VPN tags, much like the tags in Hama, is used for both routing and for security (Chandran, column 2 lines 1-8). One of ordinary skill in the art would find it obvious to modify the invention of Hoke to allow the group identifier of Chandran to specify the encryption and security policy of Hoke because it offers the advantage of allowing the application of different security and routing treatment to multiple traffic flows being transmitted over a shared link (Chandran, column 1 lines 55-67, KSR International Co. v. Teleflex Inc).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 6, 10, 12, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoke et al US Patent No. 6,701,437 in view of Hama US Patent No. 7,072,346.
- 4. With regards to claim 1, Hoke teaches receiving at the ingress point of the backbone (Hoke, column 16 lines 23-31, VPN unit receives) group security association data associated with the group of stations (Hoke, column 16 lines 23-31, Figures 7 and 8), receiving a packet at the ingress point of the backbone (Hoke, column 7 lines 46-53, VPN unit receives packet), a packet including an identifier corresponding to the group of stations and a destination address for the packet (Hoke, column 7 lines 46-53, addressed to the VPN, encapsulation includes destination address), transforming, at the ingress point of the backbone, the packet according to the group security association associated with the identifier (Hoke, column 7 lines 46-53, column 9 lines 18-34 and column 9 lines 60-67) and forwarding the transformed packet over the backbone using the group identifier as a backbone address (Hoke, column 7 lines 46-58, strips off). Hoke fails to teach the packet including a group identifier and a destination for the packet and the ingress point being a provider edge device. However, Hama teaches

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receiving a packet including a group identifier and a destination for the packet and forwarding the transformed packet using the group identifier (Hama, column 10 lines 25-53, destination address contained in the packet, when packet enters... VID contained in tag) wherein the ingress point is a provider edge device (Hama, Abstract, edge routers provided between the MPLS network and VLANs for interfacing between two).

Chandran teaches transforming the group identifier using the group identifier (Chandran, column 2 lines 1-7, MPLS-VPN tag used for security policies on the traffic). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Hama and Chandran's method of using group identifiers because it offers the advantage of allow terminals belong to the same VLAN to communicate with each other regardless of where they are installed (Hama, column 2 lines 4-20) and because it offers the advantage of allowing the application of different security and routing treatment to multiple traffic flows being transmitted over a shared link (Chandran, column 1 lines 55-67).

- 5. **With regards to claim 2**, Hoke as modified teaches retaining fields of the packet needed to transfer the packet to the destination address over the backbone (Hoke, column 7 lines 47-57, encapsulates).
- 6. With regards to claims 6, 10, and 12, Hoke teaches receiving, at the egress point of the backbone, group security association data for the group (Hoke, column 16 lines 23-31, VPN unit receives), receiving a packet at the egress point of the backbone, restoring the packet responsive to the group security association data associated with the group (Hoke, column 7 lines 47-57, strip off), and forwarding the packet to the

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destination (Hoke, column 7 lines 55-57). Hoke fails to teach the packet including a group identifier and a destination for the packet and the egress point being a provider edge device. However, Hama teaches receiving a packet including a group identifier and a destination for the packet (Hama, column 10 lines 25-53, destination address contained in the packet, when packet enters...VID contained in tag) wherein the egress point is a provider edge device (Hama, Abstract, edge routers provided between the MPLS network and VLANs for interfacing between two). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Hama's method of using group identifiers because it offers the advantage of allow terminals belong to the same VLAN to communicate with each other regardless of where they are installed (Hama, column 2 lines 4-20).

- 7. **With regards to claim 13**, Hoke as modified teaches the group comprising at least three stations (Hoke, Figure 1).
- 8. With regards to claim 16, Hoke as modified teaches the means for securing data includes transform logic for encrypting only a portion of data transferred between the ingress point and the egress point of the communication link (Hoke, column 9 lines 61-67, encapsulated portion of data is encrypted, but not VPN headers).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L. Nalven whose telephone number is 571 272

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3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on 571 272 3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andrew Nalven